|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **GLCE** | **ITEM NUMBER** | **ALL STUDENTS** | **AESWD** | **SWD**  **N=6** | **DPS** | **MICHIGAN** | **AVERAGE**  **PERCENT**  **PROFICIENT** |
| **DECIMALS AND FRACTIONS** | | | | | | | |
| **COMPARE DECIMAL FRACTIONS** | | | | | | | |
| **N.ME.04.15 Read and interpret decimals up to two decimal places; relate to money and place value decomposition.** | **27** | **65** | **69** | **33** | **64** | **83** | **41%** |
| **28** | **17** | **17** | **17** | **17** | **39** |
| **N.ME.04.16 Know that terminating decimals represents fractions whose denominators are 10, 10 x 10, 10 x 10 x 10, etc., e.g., powers of 10.** | **46** | **23** | **19** | **50** | **33** | **45** | **23%** |
| **N.ME.04.17 Locate tenths and hundredths on a number line.** | **47** | **35** | **33** | **50** | **30** | **47** | **35%** |
| **N.ME.04.18 Read, write, interpret, and compare decimals up to two decimal places.** | **1** | **35** | **38** | **17** | **38** | **65** | **28%** |
| **2** | **21** | **21** | **17** | **15** | **32** |
| **N.ME.04.19 Write tenths and hundredths in decimal and fraction forms, and know the decimal equivalents for halves and fourths.** | **3** | **50** | **55** | **17** | **59** | **70** | **43%** |
| **4** | **35** | **38** | **17** | **42** | **69** |
| **UNDERSTAND FRACTIONS** | | | | | | | |
| **N.ME.04.20 Understand fractions as parts of a set of objects.** | **48** | **60** | **62** | **50** | **77** | **89** | **60%** |
| **N.MR.4.21 Explain why equivalent fractions are equal, using models such as fraction strips or the number line for fractions with denominators of 12 or less, or equal to 100.** | **29** | **21** | **24** | **0** | **17** | **25** | **14%** |
| **30** | **6** | **5** | **17** | **15** | **45** |
| ***N.MR.04.22 Locate fractions with denominators of 12 or less on the number line; include mixed numbers.\**** | **5** | **50** | **50** | **50** | **59** | **79** | **47%** |
| **6** | **44** | **48** | **17** | **60** | **78** |
| **N.MR.04.23 Understand the relationships among halves, fourths, and eighths and among thirds, sixths, and twelfths.** | **7** | **33** | **36** | **17** | **44** | **73** | **29%** |
| **8** | **25** | **24** | **33** | **28** | **60** |
| ***N.ME.04.24 Know that fractions of the form* m/n *where m is greater than n, are greater than 1 and* *are called improper fractions; locate improper fractions on the number line.\**** | **49** | **29** | **26** | **50** | **36** | **44** | **29%** |
| **GLCE** | **ITEM NUMBER** | **ALL STUDENTS** | **AESWD** | **SWD** | **DPS** | **MICHIGAN** | **AVERAGE**  **PERCENT**  **PROFICIENT** |
| **DECIMALS AND FRACTIONS** | | | | | | | |
| **UNDERSTAND FRACTIONS (CONTINUED)** | | | | | | | |
| **N.MR.04.25 Write improper fractions as mixed numbers, and understand that a mixed number represents the number of “wholes” and the part of a whole remaining, e.g., 5/4 = 1 +1/4 = 1 1/4 .** | **9** | **23** | **26** | **0** | **29** | **43** | **20%** |
| **10** | **17** | **19** | **0** | **23** | **38** |
| **N.MR.04.26 Compare and order up to three fractions with denominators 2, 4, and 8, and 3, 6, and 12, including improper fractions and mixed numbers.** | **11** | **40** | **40** | **33** | **35** | **57** | **28%** |
| **12** | **19** | **17** | **33** | **15** | **35** |
| **WHOLE-NUMBER MULTIPLICATION** | | | | | | | |
| **USE FACTORS AND MULTIPLES** | | | | | | | |
| ***N.ME.04.04 Find all factors of any whole number through 50, list factor pairs, and determine if a one-digit number is a factor of a given whole number.\**** | **13** | **29** | **29** | **33** | **38** | **49** | **46%** |
| **14** | **63** | **64** | **50** | **68** | **85** |
| ***N.ME.04.05 List the first ten multiples of a given one-digit whole number; determine if a whole number is a multiple of a given one-digit whole number.*\*** | **15** | **77** | **83** | **33** | **82** | **89** | **62%** |
| **16** | **46** | **48** | **33** | **43** | **58** |
| **N.MR.04.06 Know that some numbers including 2, 3, 5, 7, and 11 have exactly two factors (1 and the number itself) and are called prime numbers.** | **50** | **35** | **33** | **50** | **26** | **36** | **35%** |
| ***N.MR.04.07 Use factors and multiples to compose and decompose whole numbers.\**** | **17** | **56** | **62** | **17** | **60** | **78** | **41%** |
| **18** | **25** | **26** | **17** | **20** | **19** |
| **MULTIPLY AND DIVIDE WHOLES** | | | | | | | |
| **N.ME.04.09 Multiply two-digit numbers by 2, 3, 4, and 5 using the distributive property, e.g., 21 x 3 = (1 + 20) x 3 = (1 x 3) + (20 x 3) = 3 + 60 = 63** | **19** | **38** | **33** | **67** | **42** | **51** | **33%** |
| **20** | **27** | **26** | **33** | **33** | **45** |
| **N.FL.04.10 Mltiply fluently any whole number by a one-digit number and a three-digit number by a two-digit number; for a two-digit by one-digit multiplication use distributive property to develop meaning for the algorithm.** | **21** | **40** | **36** | **67** | **50** | **63** | **39%** |
| **22** | **38** | **40** | **17** | **53** | **67** |
| **N.FL.04.11 Divide numbers up to four-digits by one-digit numbers and by 10.** | **23** | **52** | **52** | **50** | **54** | **70** | **43%** |
| **24** | **33** | **36** | **17** | **40** | **53** |
| ***N.FL.04.12 Find the value of the unknowns in equations such as a ÷ 10 = 25; 125 ÷ b = 25.\**** | **25** | **35** | **36** | **33** | **40** | **56** |  |
| **26** | **40** | **36** | **67** | **38** | **54** |
| **GLCE** | **ITEM NUMBER** | **ALL STUDENTS** | **AESWD** | **SWD** | **DPS** | **MICHIGAN** | **AVERAGE**  **PERCENT**  **PROFICIENT** |
| **WHOLE-NUMBER MULTIPLICATION (CONTINUED)** | | | | | | | |
| **MULTIPLY AND DIVIDE WHOLES (CONTINUED)** | | | | | | | |
| ***N.MRMR.04.13*** | **51** | **44** | **48** | **17** | **54** | **71** | **44%** |
| ***N.MR.04.14 Solve contextual problems involving whole number multiplication and division.\**** | **31** | **42** | **43** | **33** | **48** | **76** | **42%** |
| **32** | **42** | **48** | **0** | **43** | **70** |
| **CONNECTIONS** | | | | | | | |
| **NUMBER NOTATION AND PLACE VALUE** | | | | | | | |
| **N.ME.04.01 Read and write numbers to 1,000,000; relate them to the quantities they represent; compare and order.** | **44** | **38** | **33** | **67** | **45** | **60** | **38%** |
| **N.ME.04.03 Understand the magnitude of numbers up to 1,000,000; recognize the place values of numbers and the relationship of each place value to the place to its right, e.g., 1,000 is 10 hundreds.** | **45** | **46** | **50** | **17** | **51** | **68** | **46%** |
| **ADD AND SUBTRACT FRACTIONS** | | | | | | | |
| ***N.MR.04.27 Add and subtract fractions less than 1 with denominators through 12 and/or 100, in cases where the denominators are equal or when one denominator is a multiple of the other, e.g.,* 1/12 + 5/12 = 6/12 ; 1/6 + 5/12 = 7/12 ; 3/10 – 23/100 = 7/100** | **52** | **13** | **10** | **33** | **15** | **23** | **13%** |
| ***N.MR.04.29 Find the value of an unknown in equations such as 1/8 + x = 5/8 or 3/4 - y = 1/2.*** | **53** | **35** | **36** | **33** | **44** | **62** | **35%** |
| **ADD AND SUBTRACT FRACTIONS (CONTINUED)** | | | | | | | |
| ***N.MR.04.31 For problems that use addition and subtraction of decimals through hundredths, represent with mathematical statements and solve.\**** | **54** | **63** | **67** | **33** | **66** | **84** | **63%** |
| ***N.FL.04.32 Add and subtract decimals through hundredths.\**** | **42** | **23** | **21** | **33** | **35** | **46** | **23%** |
| **ESTIMATE** | | | | | | | |
| **N.FL.04.34 Estimate the answers to calculations involving addition, subtraction, or multiplication.** | **43** | **27** | **26** | **33** | **30** | **41** | **27%** |
| **GLCE** | **ITEM NUMBER** | **ALL STUDENTS** | **AESWD** | **SWD** | **DPS** | **MICHIGAN** | **AVERAGE**  **PERCENT**  **PROFICIENT** |
| **CONNECTIONS (continued)** | | | | | | | |
| **MEASURE USING TOOLS AND UNITS** | | | | | | | |
| **M.UN.04.01 Measure using common tools and select appropriate units of measure.** | **41** | **38** | **40** | **17** | **34** | **37** | **38%** |
| **CONVERT MEASUREMENT UNITS** | | | | | | | |
| **M.TE.04.05 Carry out the following conversions from one unit of measure to a larger or smaller unit of measure: meters to centimeters, kilograms to grams, liters to milliliters, hours to minutes, minutes to seconds, years to months, weeks to days, feet to inches, ounces to pounds (using numbers that involve only simple calculations).** | **38** | **29** | **31** | **17** | **23** | **41** | **29%** |
| **USE PERIMETER AND AREA FORMULAS** | | | | | | | |
| **M.TE.04.07 Find one dimension of a rectangle given the other dimension and its perimeter or area.** | **39** | **23** | **21** | **33** | **26** | **40** | **23%** |
| **M.PS.04.09 Solve contextual problems about perimeter and area of squares and rectangles in compound shapes.** | **37** | **40** | **33** | **83** | **33** | **34** | **40%** |
| **UNDERSTAND RIGHT ANGLES** | | | | | | | |
| **M.TE.04.10 Identify right angles and compare angles to right angles.** | **40** | **42** | **45** | **17** | **54** | **74** | **42%** |
| **BASIC GEOMETRIC SHAPES** | | | | | | | |
| **D.RE.04.01 Construct tables and bar graphs from given data.** | **35** | **25** | **26** | **17** | **39** | **43** | **25%** |
| **SYMMETRY AND TRANSFORMATIONS** | | | | | | | |
| **G.Tr.04.04 Recognize plane figures that have line symmetry.** | **36** | **40** | **38** | **50** | **58** | **75** | **40%** |
| **SOLVE PROBLEMS FOR GIVEN DATA** | | | | | | | |
| **D.RE.04.01 Construct tables and bar graphs from given data.** | **33** | **52** | **57** | **17** | **64** | **80** | **52%** |
| **D.RE.04.03 Solve problems using data presented in tables and bar graphs, e.g., compare data represented in two bar graphs and read bar graphs showing two data sets.** | **34** | **19** | **21** | **0** | **39** | **58** | **19%** |